

20051024.ba v03\_n852.bam.20051024

>From ???@??? Mon Oct 24 18:25:58 2005 -0500  
Date: Mon, 24 Oct 2005 23:25:18 GMT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 3852  
Message-Id: <20051024232520.7C52840836@srvr1.theporch.com>

BOATANCHORS Digest 3852

Topics covered in this issue include:

- 1) Re: [Milsurplus] Opinions: Leakage in Electrolytics  
by WA5CAB@cs.com
- 2) Re: Opinions: Leakage in Electrolytics  
by Garey Barrell <k4oah@mindspring.com>
- 3) Grandfathering Advanced License Update to Extra Class  
by W6cds@aol.com
- 4) what is this?  
by Dave or Debbie Metz <dmetz@ntelos.net>
- 5) Re: Grandfathering Advanced License Update to Extra Class  
by john <johnmb@nc.rr.com>
- 6) Re: Opinions: Leakage in Electrolytics  
by David Stinson <arc5@ix.netcom.com>
- 7) Re: Grandfathering Advanced License Update to Extra Class  
by Dan wright <dw73454@alltel.net>
- 8) Re: Opinions: Leakage in Electrolytics  
by "Brian Clarke" <brianclarke01@optusnet.com.au>
- 9) BA's in Their Native Habitat  
by Jerry Proc <jerry7proc@yahoo.com>
- 10) Re: BA's in Their Native Habitat  
by David Stinson <arc5@ix.netcom.com>
- 11) WCC - Chatham Marconi Maritime Center  
by Jerry Proc <jerry7proc@yahoo.com>
- 12) Re: Grandfathering Advanced License Update to Extra Class  
by W6cds@aol.com
- 13) CMS Radio Again  
by Al Klase <skywaves@webex.net>
- 14) Re: WCC - Chatham Marconi Maritime Center  
by "Al Parker" <anchor@ec.rr.com>
- 15) Wanted: Manual for Simpson Model 650 Transistor Tester Adaptor  
by WA5CAB@cs.com
- 16) Re: Opinions: Leakage in Electrolytics  
by "Tom Rauch" <w8ji@contesting.com>
- 17) Re: RADIOS FROM THE OUTER LIMITS...  
by WA1KBQ@aol.com
- 18) Re: [Test-Equipment] Sprague T0-4

by Larry WA9VRH <wa9vrh@mtco.com>

-----  
From: WA5CAB@cs.com  
Message-ID: <83.32c193b9.308bd88e@cs.com>  
Date: Sat, 22 Oct 2005 14:01:50 EDT  
Subject: Re: [Milsurplus] Opinions: Leakage in Electrolytics  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_83.32c193b9.308bd88e\_boundary"

--part1\_83.32c193b9.308bd88e\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Dave,

If by lower than marked capacitance, you mean below even the rather wide tolerance marked on the can, I'm afraid I will have to agree with Paul. I would probably open up and rebuild the old cans but as it's Drake and not green or black, no one may care.

In a message dated 10/22/2005 12:05:31 PM Central Daylight Time, W0rw@aol.com writes:

> i would not parallel old Al Caps.  
> If they are dopping in capacity they will soon develop AC leakage  
> that will result in ripple and hum in your system.  
> The parallel cap won't be able to remove the AC resistance.  
> You can leave it physically in the radio but cut it out of the circuit.

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
MVPA 9480  
<wa5cab@cs.com> (Primary email)  
<wa5cab@houston.rr.com> (Backup email)

--part1\_83.32c193b9.308bd88e\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
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\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\*\*\*\*\*

--part1\_83.32c193b9.308bd88e\_boundary--

-----  
Message-ID: <435A9631.9030407@mindspring.com>  
Date: Sat, 22 Oct 2005 15:42:41 -0400  
From: Garey Barrell <k4oah@mindspring.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Opinions: Leakage in Electrolytics  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Dave -

An electrolytic capacitor is "losing capacitance" because the electrolyte is drying out. This is a fairly common failure mode and will likely continue until it either opens up, (or more likely, thanks to Murphy,) short. Bridging it with a good capacitor only masks whatever warning signals you might receive until it just shorts one day. There's not that much difference in the price of capacitors to be worth taking the chance.

Cutting open the old caps and replacing with new caps will maintain the original appearance, if that's important to you. If you want a good fix that will likely last another 30 years, the AC4R Kit from Mike Bryce is a well designed and engineered product for a very reasonable price. Power transformers are NOT cheap!

<<http://www.theheathkitshop.com/drakeac4rreplace.html>>

73, Garey - K40AH  
Atlanta

Drake C-Line Service Manual  
<<http://www.k4oah.com>>

David Stinson wrote:

- > I've been repairing a few Drake AC-4 power supplies lately.
- > Many of the filter caps read lower than rated capacity,
- > but also have low leakage current- typically 2 milliamps or
- > less at full rated voltage. In these cases, I've
- > paralleled another cap across them to bring the combination

> up to spec. This seems to have worked fine.  
> If the original cap leaks worse than about 2 ma, I replace it.  
>  
> Your opinions on this method?  
>  
> 73 Dave S.  
>  
>

-----  
From: W6cds@aol.com  
Message-ID: <1f4.14e761ca.308c038d@aol.com>  
Date: Sat, 22 Oct 2005 17:05:17 EDT  
Subject: Grandfathering Advanced License Update to Extra Class  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----1130015117"

-----1130015117  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Does anyone know how you got about getting an Advanced License updated to the Extra class. I have two years to go on the original license but would like to get it changed to Extra now. Thanks

-----1130015117  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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\* \* \* \* \*

-----1130015117--

-----  
Message-Id: <6.1.2.0.0.20051022171606.01bc1e20@mail.ntelos.net>  
Date: Sat, 22 Oct 2005 17:17:05 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Dave or Debbie Metz <dmetz@ntelos.net>

Subject: what is this?

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I recently acquired an old but very nice early 50's dumont TV.. Before putting power to it, I started to check the electrolytics and found something that I was hoping someone could shed some light on a mystery component it has. It looks like a barrel 'lytic perhaps about the size of the old 2-3 section AA5 filter cap. However, there are no indications of component capacitance. It is labeled: 1.5 ohms, 120 cps, and 6V DC working voltage. It is made by micamold. It's a paper outer core that sure doesn't look like a resistor. It measures about 20K resistance with a DMM. Could someone help?

thanks

dave

-----  
Message-Id: <6.2.1.2.2.20051022180024.021ee6e8@pop-server.nc.rr.com>

Date: Sat, 22 Oct 2005 18:00:48 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: john <johnmb@nc.rr.com>

Subject: Re: Grandfathering Advanced License Update to Extra Class

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

At 05:05 PM 10/22/2005, W6cds@aol.com wrote:

>Does anyone know how you got about getting an Advanced License updated to  
>the Extra class. I have two years to go on the original license but  
>would like  
>to get it changed to Extra now. Thanks

I'd say about 3 weeks of study in the evening should do it.

John K5MO

--

No virus found in this outgoing message.

Checked by AVG Anti-Virus.

Version: 7.0.344 / Virus Database: 267.12.4/146 - Release Date: 10/21/2005

-----  
Date: Sat, 22 Oct 2005 19:55:26 -0500

From: David Stinson <arc5@ix.netcom.com>  
Subject: Re: Opinions: Leakage in Electrolytics  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <435ADF7E.7090807@ix.netcom.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii; format=flowed  
Content-transfer-encoding: 7bit

Brian Clarke wrote:

> Hi Dave,  
> The leakage current on its own is no great problem. The problem is  
> when you multiply that by the applied Voltage and look at the power  
> that the electrolytic capacitor has to dissipate - is there sufficient  
> clearance to allow natural convection or is it all jammed up against  
> heat generating valves?  
> 2 mA at 500 V is only 1 W - should be OK - but get to 10 mA and ...?  
> 73 de Brian, VK2GCE.

Thanks Brian and all who wrote.  
Many great views and perspectives.  
I like continuing to use the caps that have at least  
70% of their value and insignificant leakage,  
because I have a natural aversion to waste;  
I believe in "use it up, wear it out, make it do."  
Now, if they were seriously leaking (over 2 ma), I'd  
agree they need to go. These are in a well-vented  
power supply away from tubes; the AC-4 isn't know for  
generating a lot of waste heat. I have a couple of more  
yet to do. If I find one with more than two of the  
caps bad, I'll probably install one of those  
kits that was mentioned earlier.  
Thanks again, ya'll.  
73 Dave S.

-----  
Message-Id: <6.2.3.4.0.20051022200914.01b72450@mail.alltel.net>  
Date: Sat, 22 Oct 2005 20:09:39 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Dan wright <dw73454@alltel.net>  
Subject: Re: Grandfathering Advanced License Update to Extra Class  
Mime-Version: 1.0  
Content-Type: multipart/mixed; x-avg-checked=avg-ok-4A837886;  
boundary="====AVGMAIL-435AE30C0BB1===="

--====AVGMAIL-435AE30C0BB1=====  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
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* * * * *
```

-----AVGMAIL-435AE30C0BB1-----

-----  
Message-ID: <005201c5d76c\$7b4841e0\$0302a8c0@Belkin>  
From: "Brian Clarke" <brianclarke01@optusnet.com.au>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: Opinions: Leakage in Electrolytics  
Date: Sun, 23 Oct 2005 10:55:37 +1000  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----\_NextPart\_000\_004F\_01C5D7C0.4CC99860"

This is a multi-part message in MIME format.

-----\_NextPart\_000\_004F\_01C5D7C0.4CC99860  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Hi Dave,  
The leakage current on its own is no great problem. The problem is=20  
when you multiply that by the applied Voltage and look at the power=20  
that the electrolytic capacitor has to dissipate - is there sufficient=20  
clearance to allow natural convection or is it all jammed up against=20  
heat generating valves?  
2 mA at 500 V is only 1 W - should be OK - but get to 10 mA and ...?  
73 de Brian, VK2GCE.

Dave said:

If the original cap leaks worse than about 2 ma, I replace it.

-----\_NextPart\_000\_004F\_01C5D7C0.4CC99860  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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* * * * *
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\* \* \* \* \*

-----=\_NextPart\_000\_004F\_01C5D7C0.4CC99860--

-----  
Message-ID: <20051023024823.25291.qmail@web34207.mail.mud.yahoo.com>  
Date: Sat, 22 Oct 2005 19:48:23 -0700 (PDT)  
From: Jerry Proc <jerry7proc@yahoo.com>  
Subject: BA's in Their Native Habitat  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Hello Everyone,

My neighbour just can back from Hawaii and took this  
photo of the radio room aboard the submarine USS  
Bowfish.

[http://www.jproc.ca/test/uss\\_bowfish\\_radio\\_room\\_09\\_2005.jpg](http://www.jproc.ca/test/uss_bowfish_radio_room_09_2005.jpg)

--

Regards,  
Jerry Proc  
E-mail: [jerry7proc@yahoo.com](mailto:jerry7proc@yahoo.com)

-----  
Yahoo! FareChase: Search multiple travel sites in one click.  
<http://farechase.yahoo.com>

-----  
Date: Sat, 22 Oct 2005 21:51:22 -0500  
From: David Stinson <arc5@ix.netcom.com>  
Subject: Re: BA's in Their Native Habitat  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <435AFAAA.8040809@ix.netcom.com>  
MIME-version: 1.0



Content-type: text/plain; charset=us-ascii; format=flowed  
Content-transfer-encoding: 7bit

Jerry Proc wrote:

> Hello Everyone,  
>  
> My neighbour just can back from Hawaii and took this  
> photo of the radio room aboard the submarine USS  
> Bowfish.  
>  
> [http://www.jproc.ca/test/uss-bowfish-radio-room\\_09\\_2005.jpg](http://www.jproc.ca/test/uss-bowfish-radio-room_09_2005.jpg)  
>

Man, ain't that a beauty.  
Thanks, Jerry.

-----  
Message-ID: <20051023141238.32792.qmail@web34208.mail.mud.yahoo.com>  
Date: Sun, 23 Oct 2005 07:12:38 -0700 (PDT)  
From: Jerry Proc <jerry7proc@yahoo.com>  
Subject: WCC - Chatham Marconi Maritime Center  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Subject:WCC - Chatham Marconi Maritime Center,  
Date:Sun, 23 Oct 2005 01:08:23 -0400  
From:"David J. Ring, Jr." <n1ea@arrl.net>  
To:Sparks List <n1ea@arrl.net>

Preserving Chatham's wireless past  
By Matthew Belson/ mbelson@cnc.com  
Friday, October 21, 2005

Guglielmo Marconi may have beamed the first wireless radio signal from Wellfleet, but it was in North Chatham where he decided to build one of the country's first wireless radio transmitting stations in 1914.

Almost a century later it's hard to imagine that at one time the air around Chatham crackled with the dashes and dots of Morse Code beamed from the old Marconi Radio station to ships at sea.

"The key about Chatham was you had this large antennae array that could receive signals from around the world," said Frank Messina, of the Chatham Marconi Maritime Center. "We want to capture what occurred here in the '20s and '30s."

The radio tower is still standing along with 10 other original buildings on the 13-acre site, which is on the National Register of Historic Places.

In today's world of wireless Internet connections, cellphones and satellite communications, it can be difficult to appreciate just how revolutionary and important wireless radio transmission was back then. For the first time ships in the middle of the Atlantic Ocean could communicate with each other and to shore.

At the Marconi station, operators lived on the grounds when not tapping out messages or maintaining the equipment. The Chatham-Marconi-Radio Corporation of America station became Chatham-Radio-WCC in 1921 and was the most active marine coastal radio station until its decommissioning in 1993 by its final operator, MCI.

The town of Chatham purchased the property in 1999. "The town has begun to understand that it has an important historical artifact in the station," said Roslyn Coleman, president of the Chatham Marconi Maritime Center.

Coleman said one of the goals of the organization is to restore the original operations building to serve not only as a museum about the Marconi station, but also as a center for science and maritime education.

"We would also like to see it working as an amateur radio station," she said.

Since the organization was formed more than three years ago, its 225 members have been busy.

"Our biggest goal is to raise money to be a viable candidate for the operations building," said Coleman.

Four of the buildings are currently used as affordable housing, and Coleman said the organization would need to raise about \$500,000 to renovate and bring up to code the operations building if it can be leased from the town.

"The community support we are receiving from the town is wonderful," said Coleman.

Yet, the organization is not waiting for a building to move into before offering educational programs.

The Chatham Marconi Maritime Center is sponsoring the BOSE Radio "Harmony in Education" project for local school students. Volunteers from the center are being trained as instructors for the month-long program in November, teaching elementary school and middle school students about sound and radio waves. The workshops will be held at the Chatham Methodist Church.

"I think we have a lot of exciting things going on," said Coleman.

For more information about the Chatham Marconi Maritime Center, go to [www.chathammarconi.org](http://www.chathammarconi.org) or call 508-945-1985

--

Regards,  
Jerry Proc  
E-mail: [jerry7proc@yahoo.com](mailto:jerry7proc@yahoo.com)

-----  
Yahoo! FareChase: Search multiple travel sites in one click.  
<http://farechase.yahoo.com>

-----  
From: W6cds@aol.com  
Message-ID: <15a.5bb50fad.308d168c@aol.com>  
Date: Sun, 23 Oct 2005 12:38:36 EDT  
Subject: Re: Grandfathering Advanced License Update to Extra Class  
To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>

MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----1130085516"

-----1130085516  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Thank you all for your advice. I've had ever class of license except Extra, so might as well go for that one too now that the stupid code requirement has been dropped. It took me 10 yrs to get my first license almost 50 yrs ago. So back to the books. W6CDS

-----1130085516  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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-----1130085516--

-----  
Message-ID: <435BE825.6020105@webex.net>  
Date: Sun, 23 Oct 2005 12:44:37 -0700  
From: Al Klase <skywaves@webex.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: CMS Radio Again  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

Hi Gang,

Another example of the CMS (Spy Radio??) has surfaced. See  
<http://www.skywaves.ar88.net/SPY/spy.htm>

We had a discuss of my set here a long time ago. There wasn't much hard info, but someone said it was listed in a Navy book somewhere. In the mean time, a manual did come into my possession and is on the website.

In my estimation, this thing was intended to be an agent set, but it's kind of a stupid implementation. I might be a redesign of something earlier. The receiver uses 3S4 audio output tubes that are triode connected as if to substitute for something like a type 30.

Does anybody know anything or have any thoughts?

Regards,  
Al

--

Al Klase - N3FRQ  
Flemington, NJ  
<http://www.skywaves.ar88.net/>

-----  
Message-ID: <00e301c5d7f5\$ef273290\$3201a8c0@w8ut>  
From: "Al Parker" <anchor@ec.rr.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: WCC - Chatham Marconi Maritime Center  
Date: Sun, 23 Oct 2005 13:19:32 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Jerry et al,

Thanks for the "heads up."

I must admit I feel guilty in not pursuing what little I'd heard about this preservation/education effort in the last year or 3.

I grew up in the 50's, summers at least, in West Chatham, within sight of the WCC transmitting station 2 or 3 miles down the beach in So. Chatham. Many residents did not appreciate what was going on, the high powered CW transmissions in the 400-500kc marine frequencies came in S-9+ thru the 455kc IF's of most BC receivers within 5+- miles. In my limited way I uselessly tried to explain it to my grandfather. My novice test was administered by Bill Ryder at the transmitting station in 1956. I don't remember his call, but there's a William Ryder listed as "Emeritus" in the list of directors, it may be him. Unfortunately I never became acquainted with more than 1 or 2 hams in the area. I do remember a tour of the facility, but as a complete newcomer I didn't appreciate it as I could now. I do remember a bank of 5 or 6 of the smaller transmitters, 1kw I think, and I know there were other larger ones.

I've been back to the area almost every year since, having married a Cape girl, and since my parents retired there about 30 yrs ago now. I've boated a lot out of Ryder's Cove, in the shadow of the receiving towers. This Sept. I moved my mother, at 95, into an assisted living facility

about 1/2 mi. from the receiving station in No. Chatham. I set foot into the main receiving building once, in about 1957, when hoping to find summer employment there. I was told that I'd need a commercial license and 25-30wpm CW capability. I was hoping, futilely, for at least ground-keeping chores. I vaguely remember long tables with, I think now, many RCA AR-88 receivers, an operator in front of each, and a traveling wire to move paper messages from one end to the other. Take a look at the WA1WCC QSL card or the pic on the "history" page at for an idea.

<www.chathammarconi.org>

Thanks for the memories. I'm now living 900 miles away, enjoying boating yr 'round here, and messin' with boatanchors daily..

73,

Al, W8UT

New Bern, NC

BoatAnchors appreciated here

<http://www.thecompendium.net/radio/>

<http://www.hammarlund.info>

-----  
From: WA5CAB@cs.com

Message-ID: <20a.c58bc28.308d6477@cs.com>

Date: Sun, 23 Oct 2005 18:11:03 EDT

Subject: Wanted: Manual for Simpson Model 650 Transistor Tester Adaptor

To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="part1\_20a.c58bc28.308d6477\_boundary"

--part1\_20a.c58bc28.308d6477\_boundary

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Group,

Found a tester (for sale) but sans manual. None of the usual suspects seem to have the manual. First choice would be an original. 2nd choice borrow/rent an original for copying here. 3rd choice buy a copy.

73

Robert Downs - Houston

<<http://www.wa5cab.com>> (Web Store)

MVPA 9480

<wa5cab@cs.com> (Primary email)

<wa5cab@houston.rr.com> (Backup email)

--part1\_20a.c58bc28.308d6477\_boundary

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

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```

--part1\_20a.c58bc28.308d6477\_boundary--

-----  
Message-ID: <005d01c5d846\$33682220\$6501a8c0@akorn.net>  
From: "Tom Rauch" <w8ji@contesting.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: Opinions: Leakage in Electrolytics  
Date: Sun, 23 Oct 2005 22:54:06 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The leakage current on its own is no great problem. The problem is when you multiply that by the applied Voltage and look at the power that the electrolytic capacitor has to dissipate - is there sufficient clearance to allow natural convection or is it all jammed up against heat generating valves?  
2 mA at 500 V is only 1 W - should be OK - but get to 10 mA and ...?>>>

Only safe if that 2mA making 1 watt is evenly distributed over the entire area of the cap or not, and we can be sure it is not!

IMO 2mA of leakage @ 450 volts is very bad news in a 450 volt cap. It generally spells future disaster, unless the leakage decreases as the cap reforms. We would specify 550 or higher volt foil in the 450WV 525V test caps and required a leakage test well under 1 mA at elevated temperatures.

With very high capacitance caps at 12 volts it probably

isn't an issue.

The key is to watch the cap over a period of time at elevated temperatures and see if the current is declining as the dielectric forms up or see if the leakage is staying the same or increasing with time at a constant but elevated temperature.

73 Tom

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From: WA1KBQ@aol.com  
Message-ID: <fa.1e889b1b.308e0b3b@aol.com>  
Date: Mon, 24 Oct 2005 06:02:35 EDT  
Subject: Re: RADIOS FROM THE OUTER LIMITS...  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----1130148155"

-----1130148155  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

The RME-9 preceded the 9D and is the harder to find version. The RME-9D is certainly rare too but you do see them from time to time. The RME-9 was the first RME receiver and was hand made in E. Shalkhouser's basement by E.Shalkhauser; W9CI and Russ Planck; W9RGH. It was really the first modern complete communications receiver (first to have all the best features everyone eventually settled on). Planned production was for 100 units but production was changed to RME-9D (electrical BS- "dual" tuners) in the middle of the run and moved to larger facilities at around this time. The RME-9 and 9D were essentially the same as RME-69 but the RME-9 has a single airplane type dial, mechanical bandspread and earlier 57-58 type tubes. RME-9D production was certainly below 500 also but actual figures are unknown. RME-69 quickly became very popular (new 6C6-6D6 tubes) and production was about 6500. It is interesting to note that practically every communications receiver made since the RME-9 (up to 1946) copied RME's basic design and was essentially the same receiver but packaged and styled a little differently by all popular manufacturers. The Collins 75A with fixed crystal controlled oscillator and tunable IF of course changed everything.

Regards, Greg

-----1130148155  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit



\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*  
\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

-----1130148155--

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Date: Mon, 24 Oct 2005 17:58:58 -0500  
Subject: Re: [Test-Equipment] Sprague T0-4  
Content-Type: text/plain; charset=US-ASCII; format=flowed  
Mime-Version: 1.0 (Apple Message framework v543)  
Cc: "Test Equipment" <Test-Equipment@mailman.qth.net>,  
"Boatanchors List" <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Larry WA9VRH <wa9vrh@mtco.com>  
Message-Id: <C2A367FC-44E1-11DA-84B4-00050243F48B@mtco.com>  
Content-Transfer-Encoding: 7bit

Hi Ed,

I have a T0-4 manual. I will scan it in the next couple of days and send to you. If it is very large I will burn a CD and send to you. Is your address good on QRZ?

73 Larry WA9VRH

On Monday, October 24, 2005, at 05:37 PM, Edward J White wrote:

> Hi Gang  
> Does anybody have a copy of the manual for a Sprague Tel-ohmike T0-4.  
> Or know where one is stored on the web?  
> Ed  
> WA3BZT  
> -----  
> Test-Equipment mailing list  
> Test-Equipment@mailman.qth.net  
> <http://mailman.qth.net/mailman/listinfo/test-equipment>  
>

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End of BOATANCHORS Digest 3852

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